

FIG. 1 PRIOR ART

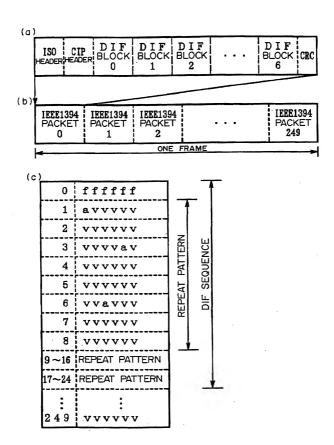


FIG. 2 PRIOR ART

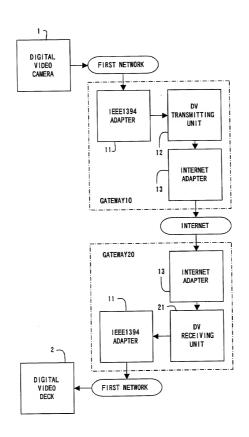


FIG. 3

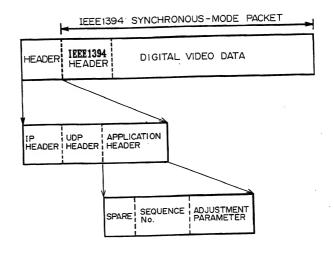


FIG. 4 PRIOR ART

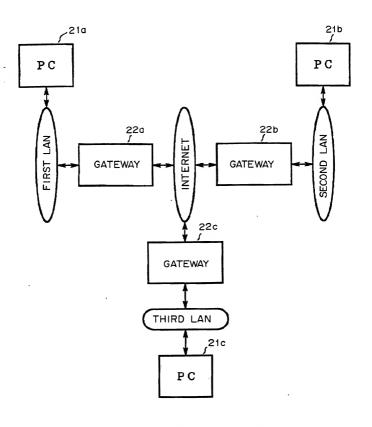


FIG. 5 PRIOR ART

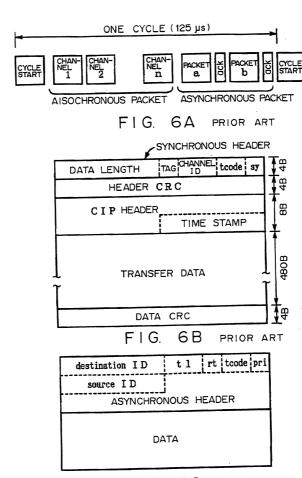


FIG. 6C PRIOR ART

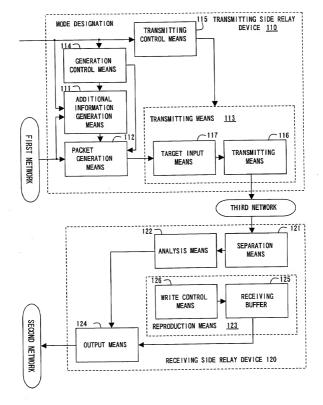


FIG. 7

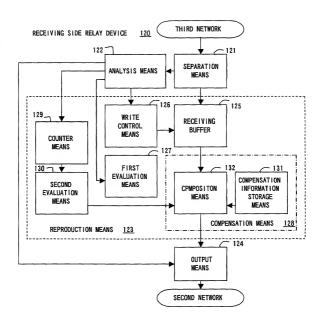


FIG. 8

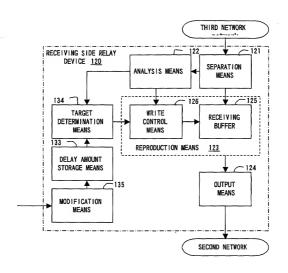


FIG. 9

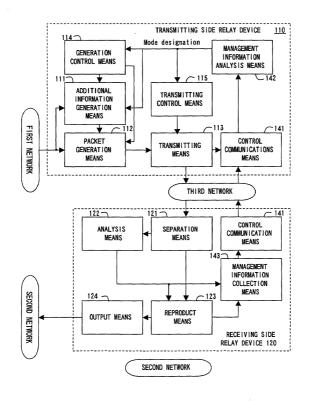


FIG. 10

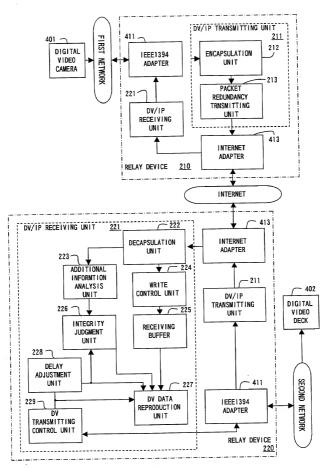


FIG. 11

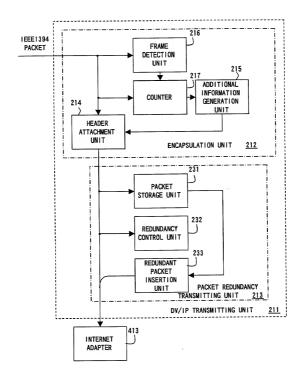


FIG. 12

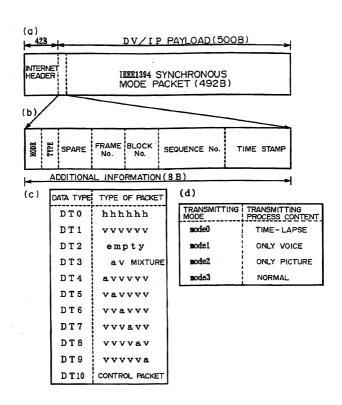


FIG. 13

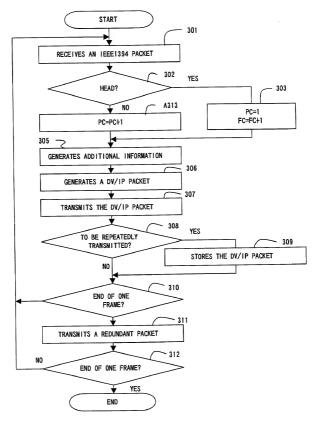
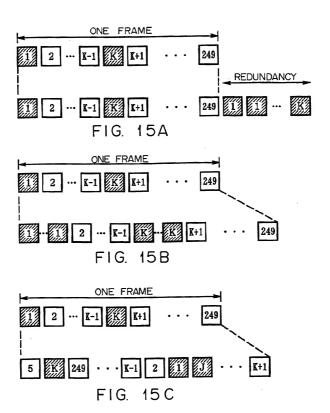


FIG. 14



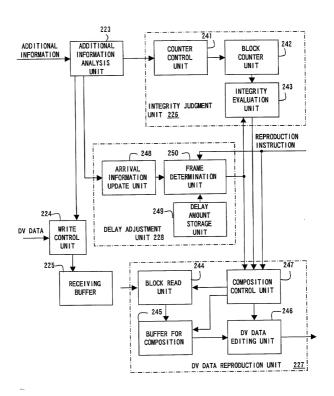


FIG. 16

BLOCK No.	FRAME(0)	FRAME(1)	• • •	FRAME(K)
0	DV <sub>0</sub> , o	DV 1, 0		DV <sub>K</sub> , o
1	DV 0, 1	DV 1, 1		DV <sub>K,1</sub>
2	DV 0, 2	DV 1, 2		DV K. 2
		•	٠.	
			i I	} }
249	DV <sub>0</sub> , 249	DV1,249	· · ·	DVK, 249

FIG. 17A

	FRAME(0)	FRAME(1)		FRAME(K)
RECEIVING BLOCK	RBC0	RBC1		RBCK
FRAME HEADER	FHC0	FHC1		FHCK
AUDIO BLOCK	ABC0	ABC1	٠	ABCK
VIDEO BLOCK	VBC0	VBC1		VBCK

FIG. 17B

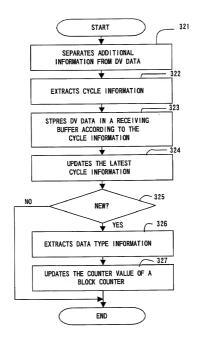


FIG. 18A

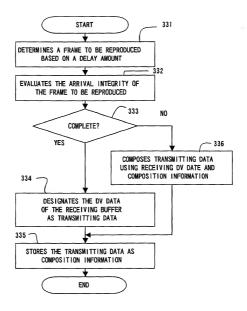


FIG. 18B

FIRST BUFFER	SECOND BUFFER	PACKET No.	TRANSMITTING DATA
DV <sub>(n-1, 0)</sub>	DV (n, 0)	0	DV <sub>(n, 0)</sub>
DV <sub>(n-1, 1)</sub>	DV (n, 1)	1	DV (n, 1)
DV <sub>(n-1, 2)</sub>	LOST	2	DV (n-1, 2)
:	į	:	:
DV <sub>(n-1, 249)</sub>	DV (n, 249)	249	DV <sub>(n, 249)</sub>

FIG. 19A

PACKET No.	FIRST BUFFER	SECOND BUFFER
0	FH <sub>n-1</sub>	FH .
1	$\mathbf{a}_{\scriptscriptstyle n-1}\mathbf{v}_{\scriptscriptstyle n-1}\mathbf{v}_{\scriptscriptstyle n-1}\mathbf{v}_{\scriptscriptstyle n-1}\mathbf{v}_{\scriptscriptstyle n-1}\mathbf{v}_{\scriptscriptstyle n-1}$	a v v v v v v v v v
2	$\mathbf{v}_{\scriptscriptstyle n-1}\mathbf{v}_{\scriptscriptstyle n-1}\mathbf{v}_{\scriptscriptstyle n-1}\mathbf{v}_{\scriptscriptstyle n-1}\mathbf{v}_{\scriptscriptstyle n-1}\mathbf{v}_{\scriptscriptstyle n-1}$	LOST
3	$\mathbf{v}_{\scriptscriptstyle{\mathbf{n}}\text{-}1}\mathbf{v}_{\scriptscriptstyle{\mathbf{n}}\text{-}1}\mathbf{v}_{\scriptscriptstyle{\mathbf{n}}\text{-}1}\mathbf{v}_{\scriptscriptstyle{\mathbf{n}}\text{-}1}\mathbf{v}_{\scriptscriptstyle{\mathbf{n}}\text{-}1}$	v <sub>n</sub> v <sub>n</sub> v <sub>n</sub> a <sub>n</sub> v <sub>n</sub>
:	•	
249	$\mathbf{v}_{n-1}\mathbf{v}_{n-1}\mathbf{v}_{n-1}\mathbf{v}_{n-1}\mathbf{v}_{n-1}\mathbf{v}_{n-1}$	LOST

FIG. 19B

PACKET No.	TRANSMITTING DATA
0	FH <sub>n-1</sub>
1	$\mathbf{a}_{n} \mathbf{v}_{n-1} \mathbf{v}_{n-1} \mathbf{v}_{n-1} \mathbf{v}_{n-1} \mathbf{v}_{n-1}$
2	$\mathbf{v}_{\mathtt{n-i}}\mathbf{v}_{\mathtt{n-1}}\mathbf{v}_{\mathtt{n-i}}\mathbf{v}_{\mathtt{n-i}}\mathbf{v}_{\mathtt{n-i}}\mathbf{v}_{\mathtt{n-i}}$
3	$\mathbf{v}_{n-1}\mathbf{v}_{n-1}\mathbf{v}_{n-1}\mathbf{v}_{n-1}\mathbf{a}_{n}\mathbf{v}_{n-1}$
	*
249	$\mathbf{v}_{n-1}\mathbf{v}_{n-1}\mathbf{v}_{n-1}\mathbf{v}_{n-1}\mathbf{v}_{n-1}\mathbf{v}_{n-1}$

FIG. 19C

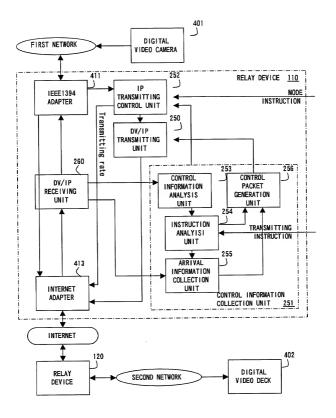


FIG. 20

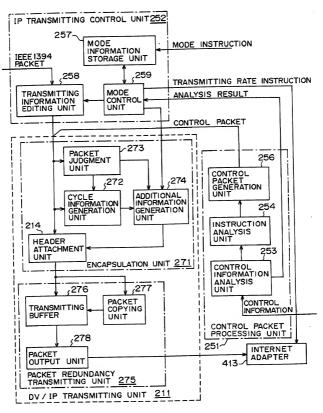


FIG. 21

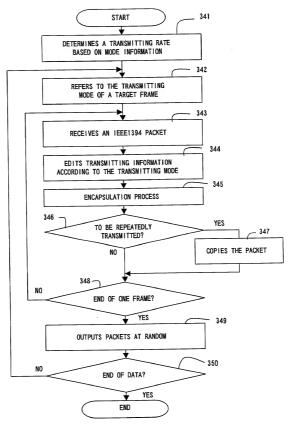


FIG. 22

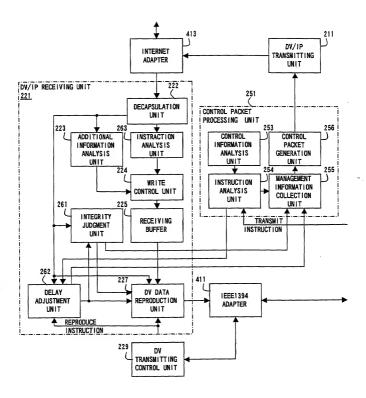


FIG. 23

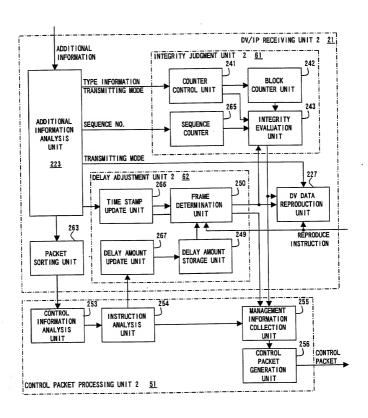


FIG. 24

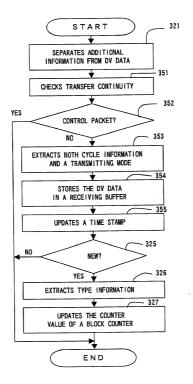


FIG. 25A

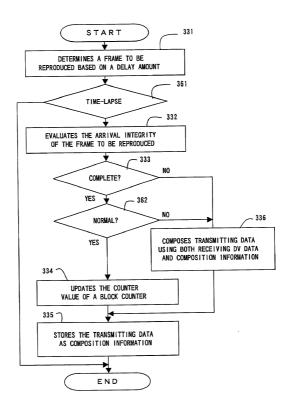


FIG. 25B

PACKET NO		0	NLY	VOI	CE			ONL	Y P	ICT	JRE	
0			F	H					F	H		
1	a	v	v	v	v	v	-	v	v	v	v	v
2	-	_	-	_	-	. <del>-</del>	v	v	v	v	v	v
3	v	v	v	v	a.	v	v	v	v	v	_	v
:				:			ļ			:		
249	-	-	-	-	. — .	-	v	v	v	v	v	v

FIG. 26A

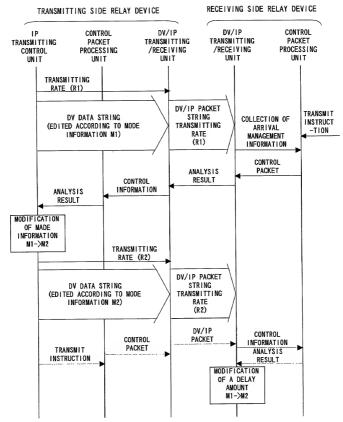
PACKET No	FIRST BUFFER	SECOND BUFFER
0	FH <sub>n-1</sub>	FH,
1	$\mathbf{a}_{\scriptscriptstyle n-1}\mathbf{v}_{\scriptscriptstyle n-1}\mathbf{v}_{\scriptscriptstyle n-1}\mathbf{v}_{\scriptscriptstyle n-1}\mathbf{v}_{\scriptscriptstyle n-1}\mathbf{v}_{\scriptscriptstyle n-1}$	a,
2	$\mathbf{v}_{\mathfrak{a}-1}\mathbf{v}_{\mathfrak{a}-1}\mathbf{v}_{\mathfrak{a}-1}\mathbf{v}_{\mathfrak{a}-1}\mathbf{v}_{\mathfrak{a}-1}\mathbf{v}_{\mathfrak{a}-1}$	
3	$\mathbf{v}_{\scriptscriptstyle{n-1}}\mathbf{v}_{\scriptscriptstyle{n-1}}\mathbf{v}_{\scriptscriptstyle{n-1}}\mathbf{v}_{\scriptscriptstyle{n-1}}\mathbf{v}_{\scriptscriptstyle{n-1}}\mathbf{v}_{\scriptscriptstyle{n-1}}$	a <sub>1</sub> -
;	:	:
249	$\mathbf{v}_{n-1}\mathbf{v}_{n-1}\mathbf{v}_{n-1}\mathbf{v}_{n-1}\mathbf{v}_{n-1}\mathbf{v}_{n-1}$	

FIG. 26B

PACKET No.	TRANSMITTING DATA
0	FH <sub>n-1</sub>
1	$\mathbf{a}_{n} \mathbf{v}_{n-1} \mathbf{v}_{n-1} \mathbf{v}_{n-1} \mathbf{v}_{n-1} \mathbf{v}_{n-1}$
2	$\mathbf{v}_{\scriptscriptstyle n-1}\mathbf{v}_{\scriptscriptstyle n-1}\mathbf{v}_{\scriptscriptstyle n-1}\mathbf{v}_{\scriptscriptstyle n-1}\mathbf{v}_{\scriptscriptstyle n-1}\mathbf{v}_{\scriptscriptstyle n-1}$
3	$\mathbf{v}_{\mathtt{n-1}}\mathbf{v}_{\mathtt{n-1}}\mathbf{v}_{\mathtt{n-1}}\mathbf{v}_{\mathtt{n-1}}\mathbf{v}_{\mathtt{n-1}}\mathbf{a}_{\mathtt{n}}\mathbf{v}_{\mathtt{n-1}}$
:	1
249	$\mathbf{v}_{n-1}\mathbf{v}_{n-1}\mathbf{v}_{n-1}\mathbf{v}_{n-1}\mathbf{v}_{n-1}\mathbf{v}_{n-1}$

FIG. 26C

11.00



F | G. 27

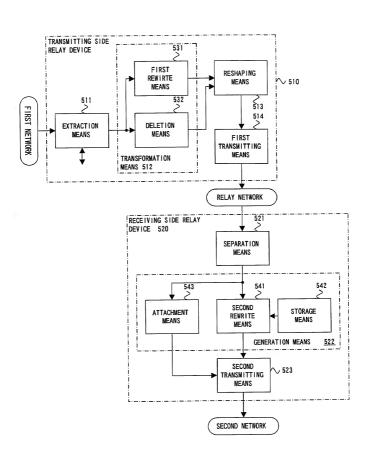


FIG. 28

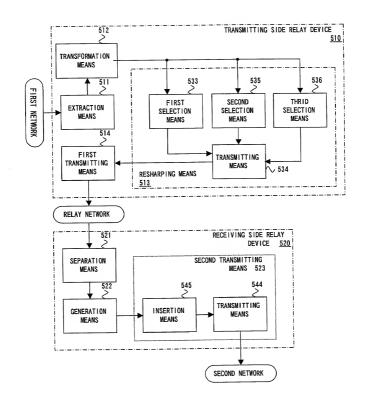


FIG. 29

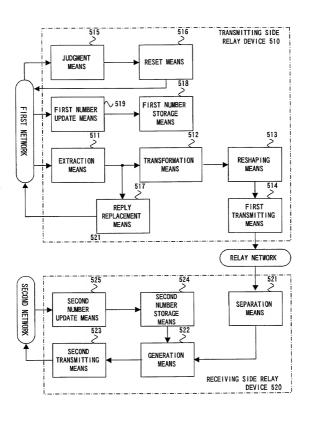


FIG. 30

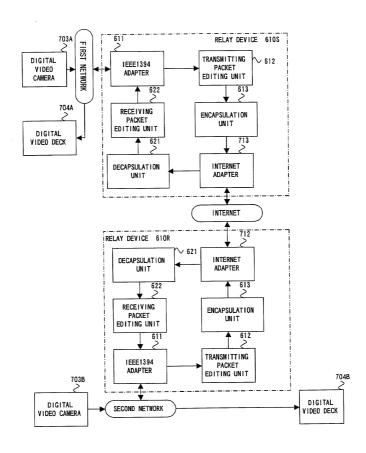


FIG. 31

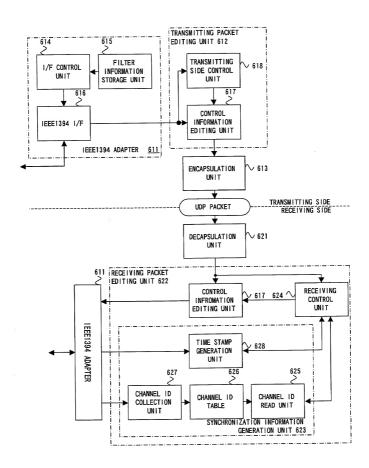


FIG. 32

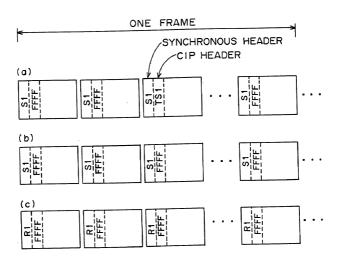


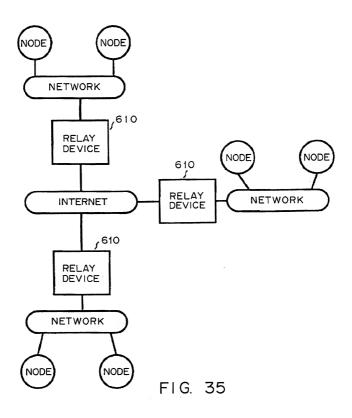
FIG. 33

TRANSMITTING SIDE CHANNEL ID	RECEIVING SIDE CHANNEL ID
S 1	R 1
:	:
•	•

FIG. 34A

TRANSMITTING SIDE CHANNEL ID	NETWORK ADDRESS	RECEIVING SIDE CHANNEL ID
S 1	N 1	R 1
S 1	N 2	R 2
S 2	N 1	R3
	•	
:	•	

FIG. 34B



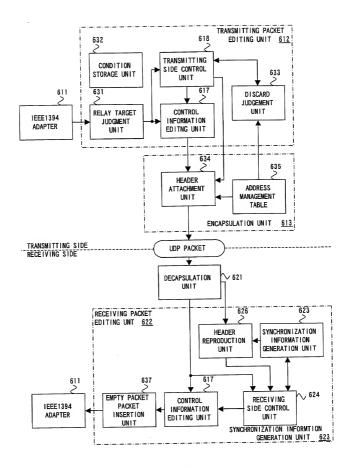
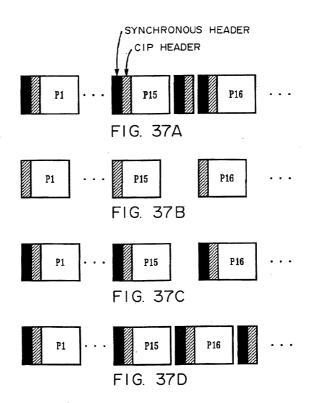


FIG. 36



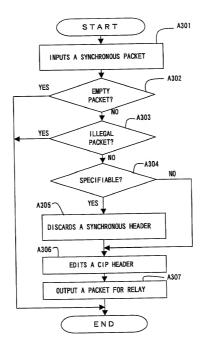


FIG. 38

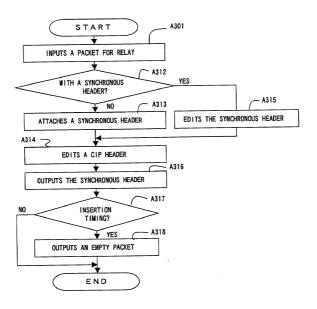


FIG. 39

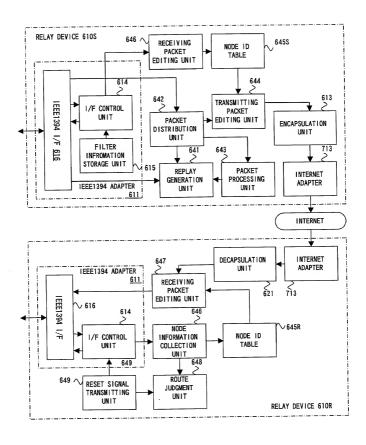


FIG. 40

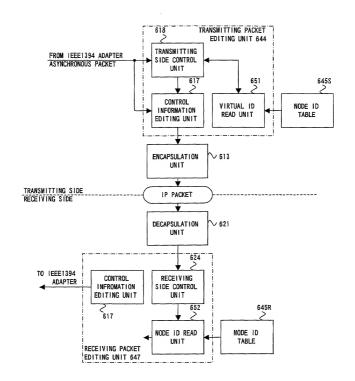


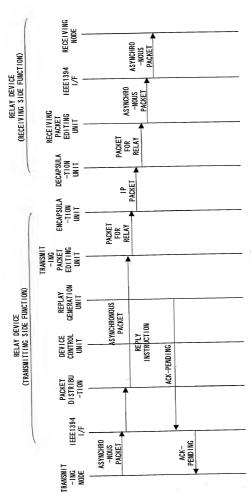
FIG. 41

FIG. 42B

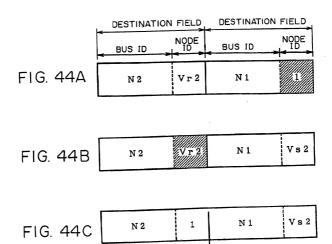
SERIAL No.	VIRTUAL ID	NODE ID
Sn1	Vs1	0
Sn2	Vs2	1
	•	
	•	
Sn5	Vs5	4

FIG. 42C

SERIAL No.	VIRTUAL ID	NODE ID
Sn6	Vr1	0
Sn7	Vr2	1
	•	
	:	:
S n 14	Vr9	8



F I G. 43



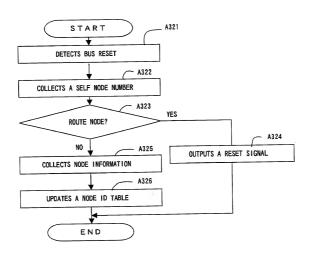
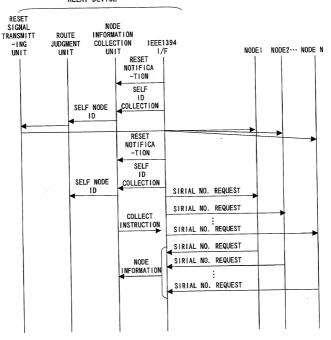


FIG. 45

## RELAY DEVICE



F I G. 46

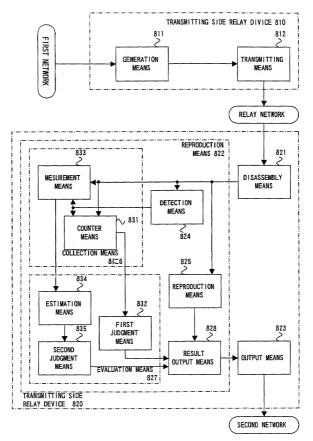


FIG. 47

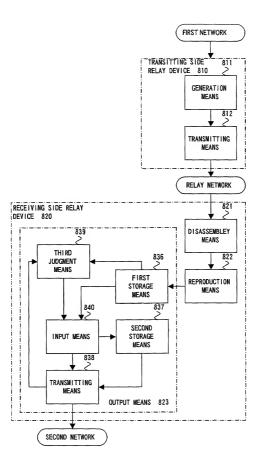


FIG. 48

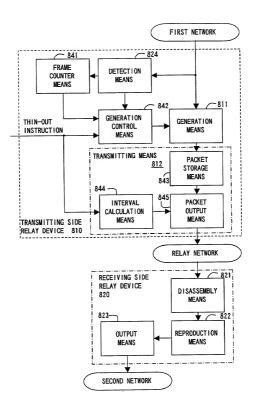


FIG. 49

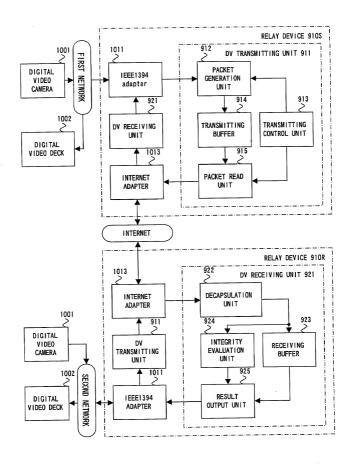


FIG. 50

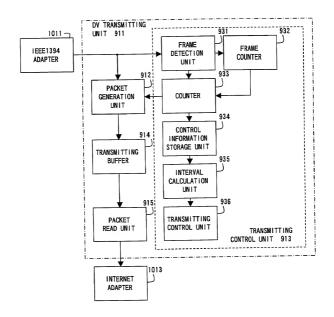


FIG. 51

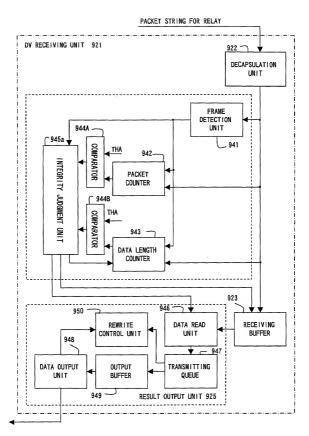


FIG. 52

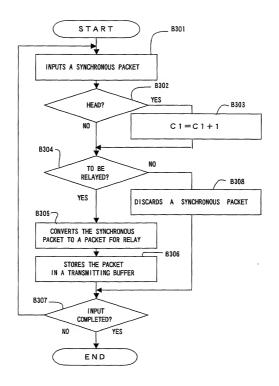


FIG. 53A

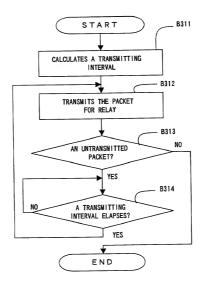
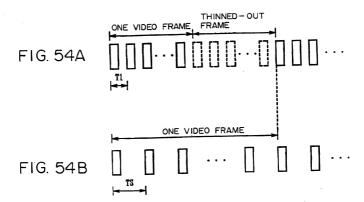


FIG. 53B



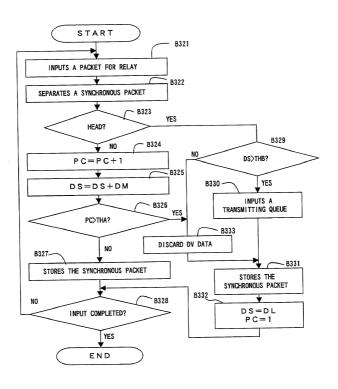
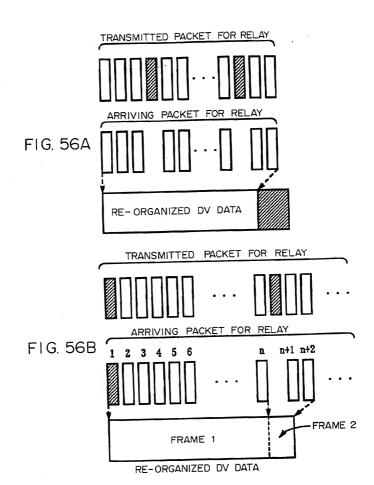


FIG. 55



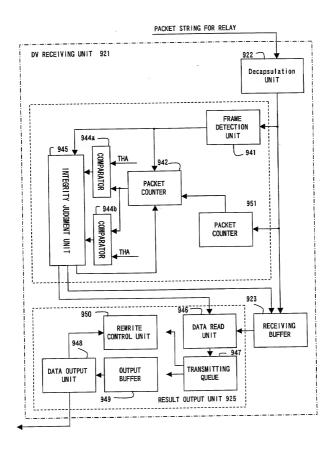


FIG. 57

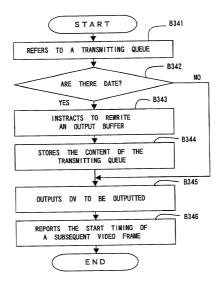
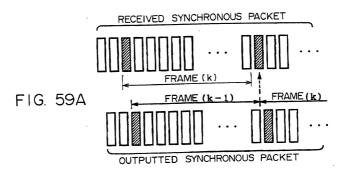
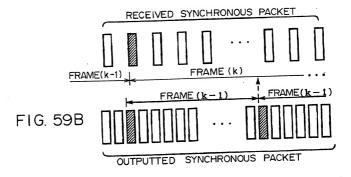
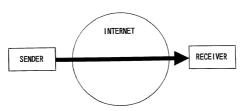


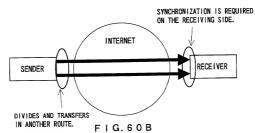
FIG. 58

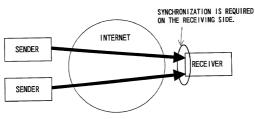




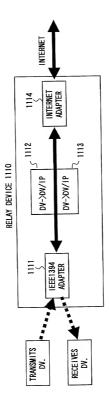


F | G. 60A

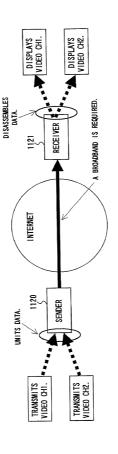




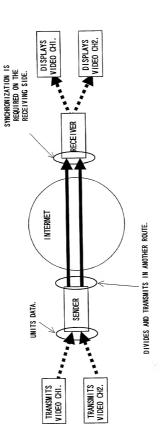
F | G. 60C



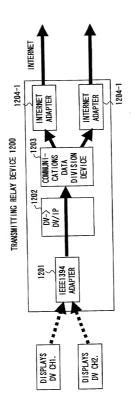
F I G. 6 1



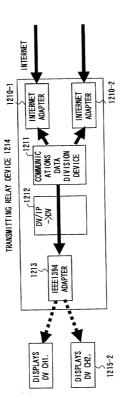
F I G. 62



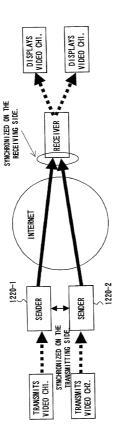
F I.G. 63



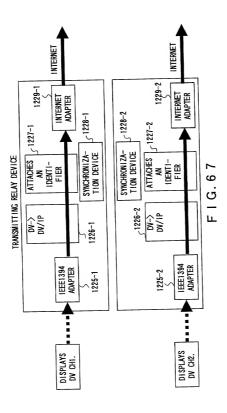
F I G. 64

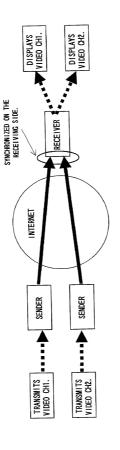


F I G.65

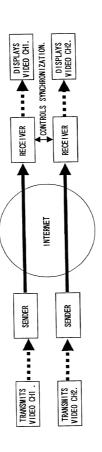


F I G. 6 6

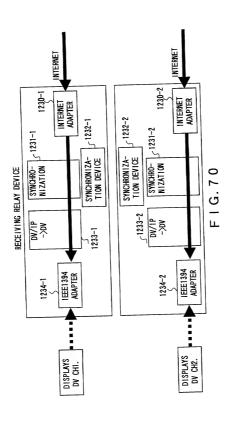


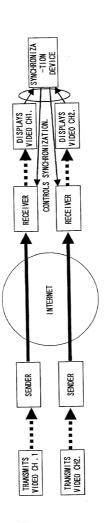


F I G. 68

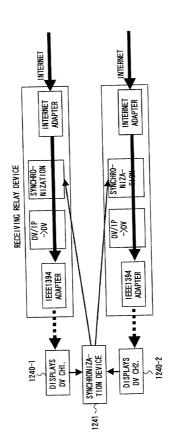


F I G. 69





F I G. 7 1



F1G.72

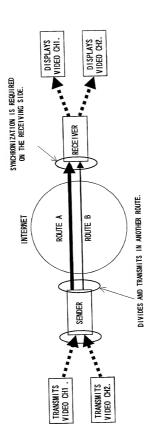
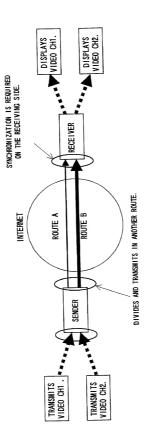


FIG.73



F I G. 74

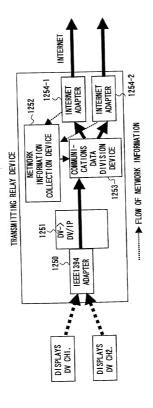
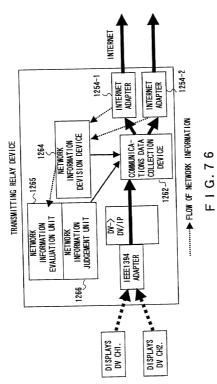


FIG.75



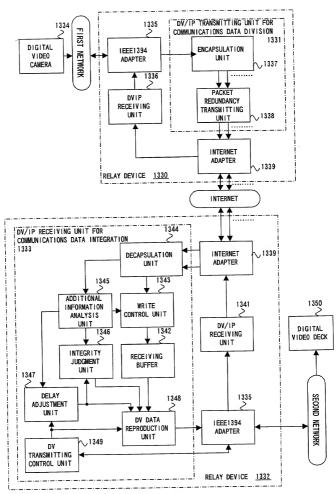
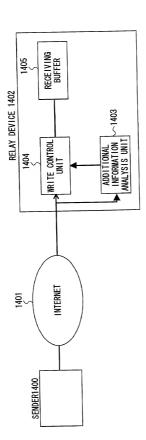


FIG. 77



F I G. 78